THE TECH

VOL. XXXIII. NO. 144.

BOSTON, MASS., THURSDAY, MARCH 5, 1914.

PRICE ONE CENT.

Final preparations for bibble" are now going on. A full fledged dress rehearsal with all of the acts included is to be held some time in the next three days and by the time Saturday night comes everything is sure to be in shape to give the best vaudeville performance that Huntington Hall has ever seen.

All of the performers in the various numbers are about rounding into the pink of condition. The two singers in the first act are carefully guarding their voices so as to be able to give the best that they have to the large audience that is sure to be present. Rach night sees them gargling and spraying their throats in order to ward off any possible hoarseness and each night sees them tucked into bed with a large piece of flannel wrap ped around their necks.

The dancers, too, who are to form the second number are taking equally good care of themselves. A few strenuous athletic exercises, five or six times a day, are to guarantee that any possible kinks will be well worked out by Saturday, while constant attendance at all of "the dansants" that are being given in this city assures the fact that they will have in which to have supper served, it absolutely the most up-to-date dances.

The next act is to be a monologue and dialogue affair so that this does not require such personal care, but participants are nevertheless preparing themselves against any slips. For instance realizing that their act is one of the funniest off of the Keith circuit, they have to train somewhat to be able to carry on the conversation at the speed which is necessary to produce the continual laugh which is expected. In the last act the various members of the cast are doing all in their power to make the little skit go without a single hitch. Numerous rehearsals in the past two weeks have very nearly accomplished this. There is no doubt that after the dress rehearsal the lines will be letter perfect.

Remember that the whole affair that is to follow is to be absolutely informal. Also remember to buy that ticket if you have not already done

JUNIOR CLASS MEETING

President Scully of the Junior class has called a meeting of the third year men for Monday, March 9, at 1 o'clock, in Huntington Hall. The business to come before the class is the consideration of the new uniform constitution which was drawn up a short time ago, and which it was hoped all the classes would adopt.

IMPORTANT PROM ANNOUNCEMENT

-Sign-ups for Juniors and Seniors Begin Monday.

As advertised in THE TECH and on the bulletin boards, the sign-ups will begin next Monday. Members will be in the Union from one until two and from four until five daily. Only Juniors and Seniors will be sign ed up during the week of March 9 to 16, inclusive. Beginning March the 17th, at one o'clock, Sophomores will be allowed to sign up with the Juniors and Seniors. All men must sign up at the set places after March the Only two hundred and fifty (250) will be signed up and after that number has been reached a waiting list will be formed, and if any men are forced to withdraw their subscriptions the said subscriptions will be offered to the men on the waiting list in order of their places. There will be no Freshmen at this year's Prom.

Owing to the popularity of the place of the Prom, the great advantage of having ample room (as both the main ball room and the one adjoining will be used); and the fact that the Committee has secured the Palm room and the large dining room is evident to the Committee that they will not be able to accommodate all the classes without exceeding the stated number. The Prom is the largest and most elaborate function of its kind given at the Institute. It is in tended essentially as an upper class affair and the Committee is making every effort to make this entertain ment one of which every Junior and Senior will be proud and one that sets a high standard for the 1916 men to live up to or try to exceed. As it is not possible to accommodate all the men in the Institute who will desire to attend the Prom, the Juniors and Seniors are given the first op portunity, and the Sophomores will be alowed the opporunity of taking those (Continued on Page Three.)

REV. VERNON TO SPEAK

One Important Proof of Chris tianity" Subject of Talk.

The Rev. M. A. W. Vernon will speak in the Union this noon at 1.30. Mr. Vernon is pastor of the Harvard Congregational Church, in Brookline, and today will make his first appearance before Tech students as a T. C. A. guest. The speaker has chosen to speak on "One Important Proof of Christianity," and his subject, together with the fact that he talks this noon for the first time at the Institute, is expected to draw a large crowd.

ROPE DRIVE EXPERT ADDRESSES SOCIETY

No Freshmen Allowed To Attend Mr. C. B. Sawyer Explains Rope Drive System for Power Transmission.

> The Mechanical Engineering Society was addressed yesterday afternoon by Mr. C. B. Sawyer, of the Dodge Manufacturing Company. This er transmission, which Mr. Sawyer tion: took as his subject.

Mr. Sawyer briefly outlined the different methods of transmission of power. He then started on the discussion of transmission by rope driving in particular. Rope transmission was first introduced in England about 1830. The system as it was then developed has since been called the English system and it is characterized by the use of individual ropes in separate grooves, with no tightening device. This system has many faults. The ropes could never be made to not be transmitted from one shaft to another which was vertically over or

(Continued on Page Three.)

CALDER WRITES WALTZ

Winner of Prom Competition Has Written Show Music.

Before a jury composed of the Prom Committee and Messrs. Urquidi and Howard, would-be aspirants for musical honors played their compositions for the Prom Prize Waltz com petition. The following Juniors submitted pieces: Gurney, Dalton, Parsons, McDaniels and King, Calder, Kingsbury. The first trial eliminated all but McDaniels and Knig, and Calder, upon second trial the latter was declared the winner of the competi-

Charles II. Calder, '15, to whom the first prize of six dollars will go has achieved musical prominence before at Technology, having been one of the composers of the music for last year's show. The waltz submitted by Calder was declared by Mr. Urquidi to have great, possibilities for the orchestra and the committee is more than satisfied with the results of the competition. The prize waltz will be played at the Prom, probably as an intermission number.

FRESHMAN BASEBALL

On next Tuesday, March 10, all candidates for the Freshman Baseball Team are to meet at 1.15 o'clock in Room B of the Union to discuss the formation of the team and to lay plans for the coming season. At least twenty-five men are expected to appear, and the prospects of a crack team are very good.

FINAL SELECTION FOR SHOW CAST

Dance Trials for Ballet Held— No Chorus Rehearsal Today.

Eugene Sanger, coach of this year's Tech Show, arrived yesterday. those who were out for the cast were given a trial, and with the assistance company is the originator of the well of Stage Manager David M. Hughes, known system of rope-drive for pow- Mr. Sanger made the following selec-

Simpson	Parkinson
Smith	Shedd
Paul	Tabbut
Jim	MacDaniels
Ambassador	White
Premier	Ross
Chief Anarchist	Rennie
First Anarchist	MacEwen
Second Anarchist	Johnson
Valet	Yeh
Alice	Smythe
Elaine	Hiller

The dance trials for the pony ballet were in charge of Mrs. Adams. The bear the same tension. Power could following men are requested to report Friday at 4.15, when another cut will be made:

> For specialties, Hannah, Hardwick, Stuff, Whittemore.

> For the ballet, Hauser, Bell, Couch, Whitney, W. B. Ford, F. L. Ford, Gillespie, Bidwell, Bassett, Stimets, Swift, Gardner, Miller, Leiber, Checa, Wallace, W. B. Spencer.

> The cast rehearsal will start at 4.15 this afternoon. Hardwick, Whittemore, Staub and Hannah are requested to come at five o'clock. There will be no chorus rehearsal today.

YISH-KA-BIBBLE TICKETS

All men selling tickets for "Yish-Ka-Bibble" are requested to be sure and meet in the outside Show office at one o'clock today and the prepared to give a definite account of all tickets sold to date.

CALENDAR

Thursday, March 5.

1.15-Hockey Team Picture. Notman's.

1.15-Junior Executive Committee Picture. Notman's.

2.00-E. E. Society Trip. Meet at Lowell Building.

Friday, March 6.

2.00-E. E. Society Trip. Meet at Lowell Building.

5.00—Technique Electoral Committee. 27 Rogers:

Saturday, March 7.

Afternoon-Freshmen vs. Andover Track Meet. Andover.

2.05-Hare and Hounds. Leave Trinity Place Station for Newton. 8.00-Yish-Ka-Bibble. Huntington

8.00-Wrestling Meet. Tech vs. B. Y. M. C. U. at B. Y. M. C. U.

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Published daily, except Sunday, dur-ing the college year by students of the Massachusetts Institute of Technology.

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THURSDAY, MARCH 5, 1914.

IN CHARGE OF THIS ISSUE.

Editors: W. A. Houser, '15, and G H. Stebbins, '17. Assistant: D. H. Parker, '17.

The Junior Class has the credit of being first to take under consideration the revised constitution proposed this year by the Institute Committee for uniform adoption by all classes. This is a matter which the other clases should consider without further delay. There is no reason for any difference in constitutions, since each class meets the same conditions and problems, and there is every advantage in having a governing code which is accessible to everyone, which can be kept revised up to the minute, and whose provisions are not subject

to such ambiguity as is common in

carelessly drawn-up constitutions.

Many complaints are being heard of the lack of magazines in the Union bearing dates more recent than January. Much as we should like to emulate our predecessors who "bawled out" the Union Committee whenever there was nothing else to fill the editorial column, we cannot do so in this case as we have prima facie evidence that a good supply of March magazines was originally provided. Why are they not there now? The same old trouble, petty thieves and "borrowers" with good intentions, but poor accomplishments. How long must these things be?

The old flag, flying once more in its accustomed place over the Union, has a pleasantly familiar look to those of us who saw it before its long retirement. We are grateful for its restora tion, and hope it will not fall into disuse again.



The Freshman Track men will not have any practice Saturday p. m. Those who are unable to report three times before Friday should take gym either Thursday or Friday. Announcement of the team to go to Andover Saturday will be made through the columns of THE TECH tomorrow

Track manager, W. S. Thomas, '15, is to be heartily congratulated on his election in the I. C. A. A. A. A.

The holding of both the Inter-collegiate champs at the Stadium this spring is a great thing for Tech. Expenses are thus reduced to a minimum and we can enter a full team,

Another boost was given to our athletics in the adoption of the five scoring places. This means that the best balanced team stands a far better chance against a poor team with a few stars than it would under the old conditions.

Had O'Hara been running for the Freshmen in the dash and 440, the meet Tuesday night would have been a walk away.

Either the blocking of a better man behind or the loss of one's temper is far from being good sportsmanship. Let's have clean competition even if some other teams seem to prefer the other.

W. A. Sullivan was decidedly off form in the meet. His winning of second in the N. E. Champs had marked for a sure first, but he only got a

Many of the Varsity are now taking a rest in preparation for the outdoor season. Yesterday, after Freshmen-Sophomore meet, were but a dozen runners on the Track.

HARE AND HOUNDS

Train Leaves Trinity Place for Newton at Two-five.

The men interested in the Hare and Hounds' Club run to be held at Newton this Saturday will leave Trinity Place at 2.05. In view of Track conditions at present only a slow squad will be run, thus affording any new men an excellent opporunity for breaking into this sport.

Chase Captain Best has decided to limit the competition for the bags to men who were not on the Varsity last year. To further the interest of those running the man who gets the first bag will be given a free trip on the next run of the season.

WEATHER

Unsettled, probably fair; moderate westerly winds.





MUCH SMOKE

Rifle Club Men Working Hard-Outdoor Practice Soon.

Even passers-by on Columbus Ave. at Ferdinand St, could tell an inquirer that M. I. T. has a Rifle Club that practices Tuesdays, Wednesdays and Fridays. The smell of powder smoke around the First Corps Armory on those nights would bring joy to the heart of any ardent sharpshooter. The team is practising hard, and a number of men are consistently making good scores. Captain Haslam has led the club for the last few years, some of his scores in practice being around 194. Perhaps no man on the team is working harder than Casselman, who is pushing Haslam hard for first honors. Being a Course X man his laboratory work keeps him from shooting at the range enough to suit him, so he has installed a private range at his room, on which he shoots between the hours of eleven and midnight, much to the disguest of his landlady. This extra practice, however, together with an occasional shot at a passing feline, is improving his target work wonderfully, so he claims.

The Club is now holding a re-entry

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being a Stevens Target Pistol. This match will continue for several weeks vet. Two matches also remain to be shot, after which outdoor work will be taken up as soon as the condition of the range permits. The Club needs more candidates for the outdoor team, and hopes that any men who have ever done any shooting will come around and join.

As the Club affiliates with the National Rifle Association, members are given the opportunity to qualify for marksman's and sharpshooter's medals. The last man to win the right to call himself a sharpshooter match, the prize for the highest score was M. S. Brant, with a score of 195.

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BOSTON

AD-M INTERNATIONAL NIGHT DEFINITELY ARRANGED

Cosmopolitan Club Meets-Date of Banquet Set for Twenty-fifth.

Yesterday afternoon at a meeting of that the Tech Club will hold its own banquet on March 25th, unless some thing new is heard from the Harvard Club. At the last meeting a joint banquet with the Harvard Cosmopolitan Club was discussed, but as nothing definite has been arranged the Institute Club will probably hold the place at the Westminster.

On March 28th, an International Night will be given in Huntington Hall and this will be one of the biggest things that the club has even given. One of the principal features in the entertainment will be an International Conference which is supposed to be held in the year 1965, the fiftieth anniversary of the opening of the Panama Canal. The funds raised by the production of this play are to be used by the Cosmopolitan Club in the New Technology.

A picture which was taken some time ago has been finished up, but, since the day on which it was taken was very cold, the picture is not as taken up by an idler mounted on a good as was expected. Any memther who desires to see it may come to Mr. Z. Y. Chow, who will be in 41 Engineering B every afternoon. The next meeting of the Cosmopolitan Club will be held April 1st.

COMMUNICATION.

To the editors of THE TECH:

looked forward with great anticipation to the Friday Night Entertain-ments described in "Concerning M. I. T." To quote: "The Friday Night Eutertainments, consisting of talks by representative men, together with such entertainments as Hook Night. the Christmas Entertainment, etc.have furnished opportunities for developing the social side of the Institute life. The Entertainment Committee has charge of Friday night Entertainments." Is there such a committee? Where is it and what is it doing? If there is such a committee, why are we without the Entertainmentsi You would oblige me greatly if you would enlighten me on these points.

M. C. B., '17.

LIBRETTO WRITING.

Mr. Carb's class in Libretto Writing will meet for the first time on the eleventh of March.

Dean Ferry of Williams deplores the high cost of living at American colleges, saying that many men are kept away by being unable to keep pace with their expenses.

Arrangements have been completed for three cornered regatta between Columbia and Penn Princeton. to take place on Carnegie Lake on May ninth.

MUSICAL CLUBS HOLD SMOKER

Spring Concert To Be Held at Activity of Alumni Is Praisedthe Copley-Plaza
This Year.

The Musical Clubs held a combined rehearsal and smoker last night in the Cosmopolitan Club it was decided the Union. This was the first effort tute, states that things are more satof the officers to get the members together in a social way. A short business meeting was held at which some proposed amendments to the the past year, of Messrs. Theodore constitution were read. These will be N. Vail and William Endicott, Jr. put into better shape and voted upon by the clubs in a few weeks. Refresh ments were served after the meeting. dinner alone, which will probably take It was announced that the Spring Concert will be held at the Copley Plaza this year. The next concert will be in Lynn on March 16.

ROPE DRIVE EXPERT ADDRESSES SOCIETY (Continued from Page One.)

under if Large ropes and large sheaves with heavy construction were necessary.

The American system was originated and patented in all its essential features by an American, Mr. Dodge. This system differs from the English system in that one continuous rope is used and all the slack is movable carriage. To this carriage is attached a system of weights which to the instructing force in the perkeeps an even tension in the rope throughout its length. This arrangement does away with the sagging of the rope on the loose side and permits the transmission of power to a shaft directly over or under the driver.

Mr. Sawyer ilustrated his talk with many slides showing installations in Before coming to the Institute, I factories for transmitting various amounts of power under all sorts of conditions. He told of many interesting problems which come up in designing power transmission to fit particular cases. It was stated that a pulley should never be less than forty times the diameter of the rope it is to carry and should be made sixty times if possible. He gave much data on the proportions of design and the results of some interesting tests carried out by the Dodge Manufacturing Company, Some of these tests showed an efficiency of 96 percent.

> Mr. Sawyer's talk was heard by a large and appreciative representation of the Mechanical Engineering So ciety.

IMPORTANT PROM ANNOUNCEMENT

(Continued from Page One.)

subscriptions not signed for by the Juniors and Seniors. The Committee feels that after the two upper classes the Sophomores should be given the next chance as they will have to run the Prom next year and we therefore issue the announcement here and above that no Freshmen will be allowed to attend.

Faculty intervention has eliminated the chance of professional baseball teams playing exhibition games with many of the western colleges.

PRESIDENT MACLAURIN MAKES ANNUAL REPORT

Changes in Corporation and Faculty.

President R. C. Maclaurin, in his report for the past year at the Instiisfactory than they have ever been before. The Cornoration has been strengthened by the addition, during The former is president of one of the greatest public service corporations in the country while the latter is the bearer of a name that has always been closely related to Institute affairs from the very beginning. Two term members of the Corporation. Messrs. James W. Rollins and Arthur T. Bradlee, have retired while Everett Morse has become a life member and three new term members are Messrs. Cass Gilbert, '79, the New York architect; Charles Hayden, '90, banker, and Charles T. Main, '76, the Boston mill engineer who also has previously served as member of the Cerporation.

During the year there has been no loss to the faculty through death, but Professor T. E. Pope has retired and Professor Woodbridge is soon about to do the same. On the other hand substantial additions have been made sons of Mr. E. J. Williams, '08, M. S., M. I. T. '09; Mr. A. LeMonnier, a graduate of the Beaux Arts, Paris, and Mr. Robert Spurr Weston, '94, while there have been the usual number of promotions to higher rank among the members of the instructing staff.

The student body has continued on the increase in number and the registration for the first term was 1685, a gain of 74 over the year previous. The foreign contingent is fifteen percent larger than ever before and, in fact, Technology has nearly twice as great a proportion of its students from other countries as any other college. Dr. Maclaurin has the greatest of praise for the alumni of Technology which has manifested itself most notably in the work of three committees, those on student housing, the alumni fund, Walker Memorial and on courses in business and engineering administration.

In a business way, an important accomplishment of the year has been the selection of an architect, W. W. Bosworth, '88, for the planning of the new Technology and the Stone and Webster Engineering Corporation for the erection of the buildings. In educational matters there have been established a new course in industrial physics, of a research department and the beginnings of a course in aerodynamics.

One of the movements of great future significance has been the beginning of the School for Health Officers, in co-operation with Harvard University. The problems of the future will include the building of the new plant and the assumption of various functions, including dormitories, the new Walker Memorial and

(Continued on Page Four.)

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"AS YOU LIKE IT"

MELBA WILL SING IN "ROMEO AND JULIETTE"

Delibes' "Lakme" To Be Given First Time in Three Years.

The forthcoming week at the Boston Opera House will bring repeti-tions of "Meistersinger" and "Don Giovanni" under the direction of Felix Weingartner; Mme. Melba's first appearance as Juliette: the first 'Aida" with Mr. Weingartner conducting; and the revival of "Lakme" after three seasons.

The week will open with a concert on Sunday evening, March 8th. This will be the annual "Weingartner" concert, with Mr. Weingartner directing the orchestra, and Mme. Weingartner singing operatic arias. Mr. Ernest Schelling will also appear, at the piano.

"Die Meistersinger" will be peated, Mr. Weingartner conducting, on Monday, March 9th Lucille Weingartner will sing the role of Eva, Mr. Laffitte will be the Walther, Mr. Ludikar the Hans Sachs, Mr. Leonhardt the Beckmesser, and Mr. Wronski the Pogner. After five performances of "Meistersinger," interest seems to be increasing, rather than diminish-

On Wednesday evening "Don Giovanni," which had to be postponed last week, will come to its first performance under the baton of Felix Weingartner, who directed its revival last year. The cast will be as at the season's first performance of the Mozart opera, including Emmy Destinn as the Donna Anna, Elizabeth Amsden as the Donna Elvira, Alice Nielsen as Zerlina, Vanni Marcoux as Don Giovanni, Paolo Ludikar as Leporello, Vincenzo Tanlorgo as Don Ottavio, and Jose Mardones as the Commander.

On Friday evening "Romeo et Juliette" will come to its second performance, this time with Nellie Melba in the role of Capulet's daugh ter. This is one of the famous diva's most celebrated parts, and one in which she has been heard but infrequently of late years. With her will be associated Lucien Muratore, as Romeo, a role in which he scored heavily at the Gounod opera's first hearing of the season.

"Aida" will be repeated on Saturday afternoon, with Felix Weingartner in the conductor's chair, and with Mme. Weingartner in the role of Aida. The cast will likewise be novel in other respects, as Mme. Gay will be the Amneris, Mr. Zenatello the Radames, and Mr. Ancona the Amon-

"Lakme" will be given for the first time in three years, at popular prices on Saturday evening. This popular opera has been revived, and will be set upon the stage with an excellent cast, including Evelyn Scotney as Lakme, Jeska Swartz-Morso as Mallika, Henry Danges as Frederick, Louis Deru as Gerald, and Alban Grand as Nilakantha. Mr. Tournon will direct.

Williams has sent her coach south to the training camp of the New York Americans, where he will remain until April.

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R. L. GOLDBERG creator of "Foolish Ques tions," "I'm the Guy" "I find in Tuxedo a goo tobacco. Its fragrance an

R. L. Escaveg.



BUD FISHER creator of "Mutt and Jeff." Tuxedo has made a pipe my favorite form of smoking. Its coolness and mildness make pipe smoking a real pleasure."

Bund Fisher

PRESIDENT MACLAURIN MAKES ANNUAL REPORT

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other student matters into which it has not entered to any great extent. The secretary of the Institute, Professor Allyne L. Merrill, announces that the courses for the new option in industrial physics has been approved by the faculty and has become operative for second year students The report of Dean Alfred E. Burton deals very largely with the student phases of Technology work. growth of the fraternities is outlined and it is stated that the total membership of all of them at Tech last year was 449. Dean Burton commends the fraternity houses as places

to live and the plans suggested for dormitories make special provision in case the fraternities wish to have their houses on the campus at the New Technology.

The Technology Christian Association, now including three hundred and seventy members, has held regular meetings during the year and has organized a very complete system of student advisers, whereby the older men take one of more freshmen when they enter and make them feel at home, giving them the information that a person new to the city and its ways will find of value.

A class in cooking for boys has been started at the Kansas Agricultural College.